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(19) **United States**(12) **Patent Application Publication****Chen et al.**(10) **Pub. No.: US 2020/0261786 A1**(43) **Pub. Date: Aug. 20, 2020**(54) **AUTO-BALACING TRANSPORTATION
DEVICE WITH STABLE PLATFORM PIVOT
AXES***A63C 17/01* (2006.01)*B62J 45/415* (2006.01)(52) **U.S. Cl.**CPC *A63C 17/12* (2013.01); *B62K 11/007*
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ABSTRACT**Related U.S. Application Data**(60) Provisional application No. 62/790,339, filed on Jan.
9, 2019.**Publication Classification**(51) **Int. Cl.***A63C 17/12* (2006.01)*B62K 11/00* (2006.01)

An auto-balancing transportation device having a wheel structure and foot platforms that pivot between an in-use and a stowed position. The pivot axis for each platform is provided within the wheel structure so that the force exerted by a rider when stepping on a foot platform is applied to the wheel structure at a point within the wheel structure, as opposed to external to it, which is unstable and may cause the device to tip over.

